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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 06272672 A

(43) Date of publication of application: 27.09.1994

(51) Int. Cl. F04C 2/10

(21) Application number: 05085302

(22) Date of filing: 19.03.1993

(71) Applicant: OVAL CORP

(72) Inventor: HOTTA KOJI

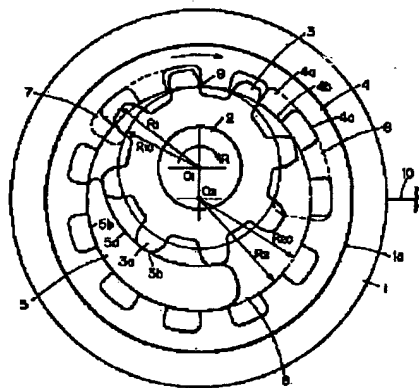
(54) INTERNAL TOOTH GEAR PUMP

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(57) Abstract:

PURPOSE: To keep a tooth form theoretically free from abrasion, even when liquid having a wide range of viscosity is handled at high speed rotation and pressure.

CONSTITUTION: A driven internal tooth gear 4 having external surface rotatably supported on a casing 1 is made to have whole addendum tooth forms 4a, and the tooth forms 3a of an external tooth drive gear 3 are kept in contact with the tooth forms 4a only at projection points 9 for the reduction of torque acting on the gear 4 due to liquid pressure to zero, thereby keeping a tooth form theoretically free from abrasion.



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